

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 217139US77		SERIAL NO. 10/023,894	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1612	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,118,045	09/12/045	REUSER ET AL			
	AB	5,939,279	08/17/99	SMITH			
	AC	5,932,211	08/03/99	WILSON ET AL			
	AD	5,929,036	07/27/99	McEVER			
	AE	5,928,928	07/27/99	AERTS			
	AF	5,919,913	07/06/99	NUYENS ET AL			
	AG	5,919,690	07/06/99	KNAP ET AL			
	AH	5,917,122	06/29/99	BYRNE			
	AI	5,916,911	06/29/99	SHAYMAN ET AL			
	AJ	5,916,870	06/29/99	LEE ET AL			
	AK	5,914,231	06/22/99	HENNINK ET AL			
	AL	5,912,146	06/15/99	NISHIMURA ET AL			
	AM	5,911,704	06/15/99	HUMES			
	AN	5,906,817	05/25/99	MOULLIER ET AL			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
CPI	AW	Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.					
CPI	AX	SLY, "The Missing Link in Lysosomal Enzyme Targeting", The Journal of Clinical Investigation, Vol. 105, No. 5, Pages 563-564, March 2000					
CPI	AY	Raas-Rothschild et al., "Molecular Basis of Variant Pseudo-Hurler Polydystrophy (Mucopolidosis IIIC)", The Journal of Clinical Investigation, Vol, 105, No. 5, pp. 673-681, March 2000					
CPI	AZ	Bao et al., "Bovine Udp-N-Acetylglucosamine: Lysosomal-Enzyme N-Acetylglucosamine-1- Phosphotransferase", The Journal of Biological Chemistry, Vol, 271, No. 49, pp. 31446-31451, December 6, 1996					
Examiner <i>C. Walker</i>					Date Considered 10/17/03		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE DECEMBER 21, 2001		GROUP 1652	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA	5,895,833	04/20/99	BERG			
	BB	5,879,937	03/09/99	RONCAROLO			
	BC	5,874,297	02/23/99	WU ET AL			
	BD	5,871,946	02/16/99	LUCAS ET AL			
	BE	5,861,491	01/19/99	NUIJENS ET AL			
	BF	5,858,755	01/12/99	LOWE			
	BG	5,858,744	01/12/00	BAUM ET AL			
	BH	5,858,351	01/12/99	PODSAKOFF ET AL			
	BI	5,854,207	12/29/98	LPE ET AL			
	BJ	5,851,782	12/22/98	HANNUN ET AL			
	BK	5,849,885	12/15/98	NUYENS ET AL			
	BL	5,840,578	11/24/98	DESNICK			
	BM	5,830,916	11/03/98	HANNUM ET AL			
	BN	5,830,860	11/03/98	GELB ET AL			
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	BW	KORNFELD, "Purification and Multimeric Structure of Bovine N-Acetylglucosamine-1-Phosphodiester $\alpha$ -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 273, No. 36, pp. 23203-23210, September 4, 1998					
	BX	Joan M. MOEHRING et al., "Strains of CHO-K1 Cells Resistant to <i>Pseudomonas</i> Exotoxin A and Cross-Resistant to Diphtheria Toxin and Viruses", Infection and Immunity, Vol 41., No. 3, Sept 1983, pp. 998-1009					
	BY	Maxime LEHMANN et al., "Lack of integrin $\alpha$ -chain endoproteolytic cleavage in furin-deficient human colon adenocarcinoma cells LoVo", Biochem. J. (1996) 317, 803-809					
	BZ	Joseph F. SUCIC et al., "Endoprotease PACE4 is $\text{Ca}^{2+}$ dependent and temperature-sensitive and can partly rescue the phenotype of a furindeficient cell strain", Biochem. J. (1999) 339, pp. 639-647					
Examiner <i>C. Baller</i>					Date Considered 10/17/03		
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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 203510US77		SERIAL NO. 10/023,890	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE December 21, 2001		GROUP 1652	
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CA	5,830,711	11/03/98	BARANY ET AL				
CB	5,807,943	09/15/98	LEE ET AL				
CC	5,798,448	08/25/98	CARAS ET AL				
CD	5,798,239	08/25/98	WILSON ET AL				
CE	5,792,647	08/11/98	ROSEMAN ET AL				
CF	5,773,236	06/30/98	DIWU ET AL				
CG	5,759,775	06/02/98	CARAS ET AL				
CH	5,750,172	05/12/98	MEADE ET AL				
CI	5,741,957	04/21/98	DEBOER ET AL				
CJ	5,736,360	04/07/98	GAULTON ET AL				
CK	5,728,381	03/17/98	WILSON ET AL				
CL	5,723,585	03/03/98	BAKER ET AL				
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CW	Valery M. GORDON et al., "Proteolytic Activation of Bacterial Toxins by Eukaryotic Cells Is Performed by Furin and by Additional Cellular Proteases", Infection and Immunity, Vol. 63, Jan. 1995, pp.82-87						
CX	Noel M. INOCENCIO et al., "Endoprotease Activities Other Than Furin and PACE4 with a Role in Processing of HIV-I gp160 Glycoproteins in CHO-K1 Cells", JBC Online, Vol. 272, No. 2, January 10, 1997, pp. 1344-1348						
CY	Valery M. GORDON et al., "Proteolytic Activation of Bacterial Toxins by Eukaryotic Cells Is Performed by Furin and by Additional Cellular Proteases", Infection and Immunity, Vol. 63, No. 1, Jan. 1995, pp. 82-87						
CZ	John L. MIDDLEBROOK et al., "Response of cultured mammalian cells to the exotoxins of <i>Pseudomonas aeruginosa</i> and <i>Corynebacterium diphtheriae</i> : differential cytotoxicity", Can. J. Microbiol. Vol. 23, (1997), pp. 183-189						
Examiner <i>C. Miller</i>				Date Considered 10/17/03			

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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	DA	5,716,614	02/10/98	KATZ ET AL			
	DB	5,707,865	01/13/98	KOHN ET AL			
	DC	5,704,910	06/06/98	HUMES			
	DD	5,696,001	12/09/97	HABENSTEIN			
	DE	5,693,622	12/02/97	WOLFF ET AL			
	DF	5,691,181	11/25/97	LOWE			
	DG	5,686,240	11/11/97	SCHUCHMAN ET AL			
	DH	5,679,545	10/21/97	BAKER ET AL			
	DI	5,665,366	09/09/97	RAWLINGS ET AL			
	DJ	5,663,254	09/02/97	LEE ET AL			
	DK	5,663,076	09/02/97	ROSTOKER ET AL			
	DL	5,658,567	08/19/97	CALHOUN ET AL			
	DM	5,648,335	07/15/97	LEWIS ET AL			
	DN	5,648,229	07/15/97	HABENSTEIN			
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	DW	Barbara H. IGLEWSKI et al., "Mechanism of Action of <i>Pseudomonas aeruginosa</i> Exotoxin A: Adenosine Diphosphate-Ribosylation of Mammalian Elongation Factor 2 In Vitro and In Vivo", Infection and Immunity, Vol. 15, No. 1, Jan. 1977, pp. 138-144.					
	DX	Ayoubi TA et al., "Production of recombinant proteins in Chinese hamster ovary cells overexpressing the subtilisin-like proprotein converting enzyme furin", NCBI, Mol Biol. Rep 1996:23(2):87-95					
	DY	Valery M. GORDON et al., "A Role for PACE4 in the Proteolytic Activation of Anthrax Toxin Protective Antigen", Infection and Immunity, Vol. 65, No. 8, Aug. 1997 pp. 3370-3375					
	DZ						
Examiner <i>C. Pollock</i>					Date Considered 1/17/03		
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	EA	5,639,939	06/17/97	McCUNE, III			
	EB	5,639,607	06/17/97	DESNICK ET AL			
	EC	5,633,261	05/27/97	DIME			
	ED	5,633,228	05/27/97	LEWIS ET AL			
	EE	5,627,171	05/06/97	PARK ET AL			
	EF	5,627,073	05/06/97	BAKER ET AL			
	EG	5,624,806	04/29/97	BAKER ET AL			
	EH	5,621,106	04/15/97	DIME			
	EI	5,612,206	03/18/97	VALERIO ET AL			
	EJ	5,585,247	12/17/96	HABENSTEIN			
	EK	5,583,160	12/10/96	IGARASHI ET AL			
	EL	5,578,479	11/26/96	LADERMAN ET AL			
	EM	5,576,424	11/19/96	MAO ET AL			
	EN	5,571,893	11/05/96	BAKER ET AL			
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Examiner <i>C. Makela</i>				Date Considered <i>12/11/03</i>			


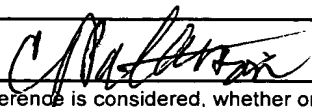
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LIST OF REFERENCES CITED BY APPLICANT <div style="text-align: center; border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 0 auto;">           OIPE FEB 21 2002 PATENT &amp; TRADEMARK OFFICE         </div>				APPLICANT William M. CANFIELD			
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<b>U.S. PATENT DOCUMENTS</b>							
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	FA	5,571,675	11/05/96	BAKER ET AL			
	FB	5,569,648	10/29/96	LEWIS ET AL			
	FC	5,565,362	10/15/96	ROSEN			
	FD	5,554,386	09/10/96	RAWLINGS ET AL			
	FE	5,545,402	08/13/96	WATKINSON			
	FF	5,534,615	07/09/96	BAKER ET AL			
	FG	5,512,471	04/30/96	SMITH			
	FH	5,501,957	03/26/96	DENNIS ET AL			
	FI	5,494,810	02/27/96	BARANY ET AL			
	FJ	5,491,075	02/13/96	DESNICK ET AL			
	FK	5,475,095	12/12/95	MYEROWITZ			
	FL	5,466,809	11/14/95	DIME			
	FM	5,449,604	09/12/95	SHELLENBERG ET AL			
	FN	5,443,988	08/22/95	HAUGHLAND ET AL			
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Examiner <i>C. R. [Signature]</i>					Date Considered 10/17/03		

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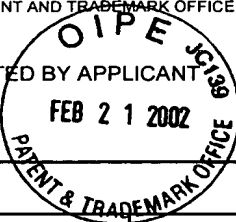
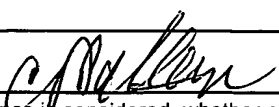
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	GA	5,439,935	08/08/95	RAWLINGS ET AL			
	GB	5,433,946	07/18/95	ALLEN, JR. ET AL			
	GC	5,420,112	05/30/95	LEWIS ET AL			
	GD	5,405,751	04/11/95	RONCAROLO			
	GE	5,382,524	07/17/95	DESNICK ET AL			
	GF	5,366,883	11/22/94	ASADA ET AL			
	GG	5,362,628	11/08/94	HAUGLAND			
	GH	5,344,352	09/06/94	HORNE ET AL			
	GI	5,316,906	05/31/94	HAUGLAND ET AL			
	GJ	5,310,646	05/10/94	WHITLEY			
	GK	5,296,365	03/22/94	OVERBEEKE ET EA			
	GL	5,281,394	01/25/94	HOLUB			
	GM	5,260,447	11/09/93	NAKAJIMA ET AL			
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Examiner <i>C. Hall</i>					Date Considered 10/17/03		

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	HA	5,217,885	01/08/93	MYEROWITZ			
	HB	5,208,148	05/04/93	HAUGLAND ET AL			
	HC	5,205,917	04/27/93	KLOCK, JR.			
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	HG	5,126,247	06/30/92	PALMER ET AL			
	HH	5,089,392	02/18/92	MILLER ET AL			
	HI	5,802,778	01/21/92	OVERBEEKE ET AL			
	HJ	5,077,200	12/31/91	HABENSTEIN			
	HK	5,075,231	12/24/91	MOREAU ET AL			
	HL	5,061,025	10/29/91	MATTES ET AL			
	HM	5,060,428	10/29/91	ARTHUR, JR. ET AL			
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<b>U.S. PATENT DOCUMENTS</b>							
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IA	5,001,072	03/19/91	OLSON				
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IC	4,987,223	01/22/91	CHOAY ET AL				
ID	4,986,274	01/22/91	STEPHENS				
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<b>U.S. PATENT DOCUMENTS</b>							
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	JB	4,492,761	01/08/85	DURACK			
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	JF	4,431,737	02/14/84	OLIVIERI ET AL			
	JG	4,401,758	08/30/83	LORMEAU ET AL			
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Examiner <i>C. M. Allen</i>					Date Considered 10/17/03		

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				FILING DATE December 21, 2001		GROUP 1652	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	3,966,555	06/29/76	ARNAUD ET AL			
	AB	3,957,578	05/18/76	NARITA ET AL			
	AC	RE35,770	04/14/98	LORMEAU ET AL			
	AD	5,773,278	06/30/98	SCHUCHMAN ET AL			
	AE	5,798,366	08/25/98	PLATT ET AL			
	AF	5,635,383	06/03/97	WU ET AL			
	AG	5,968,502	10/19/99	TRECO ET AL			
	AH	5,055,401	10/08/91	LILJESTROEM ET AL			
	AI	5,202,253	04/13/93	ESMON ET AL			
	AJ	5,929,304	07/27/99	RADIN ET AL			
	AK	5,580,757	12/03/96	DESNICK ET AL			
	AL	5,356,804	10/18/94	DESNICK ET AL			
	AM	5,401,650	03/28/95	DESNICK ET AL			
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
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	AO						
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	AW						
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Examiner <i>[Signature]</i>					Date Considered 10/18/07		

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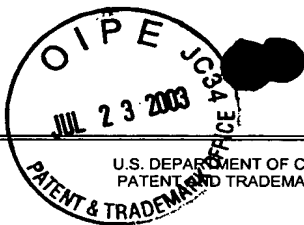
CP	AS	Ke-Wei ZHAO, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphotransferase", Glycobiology, Vol. 2, no. 2, pp. 119-125, 1992
CP	AT	Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", DNA Research, Vol. 6, pp. 337-345, 1999
CP	AU	XP-002226188, "KIAA1208 protein (Fragment)", From Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", DNA Research, Vol. 6, pp. 337-345, 1999
	AV	XP-002226187, "Basic domain/leucine zipper transcription factor (Fragment), From CORDES, et al., "The mouse segmentation gene <i>kr</i> encodes a novel basic domain-leucine zipper transcription factor" (1994), Cell, Vol. 7, No. 9, pp. 1025-1034

☐ Additional References sheet(s) attached

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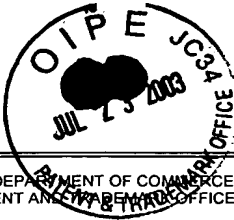
<i>all</i>	BW	Karen Gheesling MULLIS, et al., "Purification and Kinetic Parameters of Bovine Liver N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 269, No. 3, Issue of January 21, pp. 1718-1726, 1994
<i>all</i>	BX	Jin Kyu LEE, et al., "Purification and Characterization of Human Serum N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase", Archives of Biochemistry and Biophysics, Vol. 319, No. 2, June 1, pp. 413-425, 1995
<i>all</i>	BY	Theodore PAGE, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase", Glycobiology, Vol. 6, no. 6, pp. 619-626, 1996
<i>all</i>	BZ	Thomas J. BARANSKI, et al., "Lysosomal Enzyme Phosphorylation", The Journal of Biological Chemistry, Vol. 267, No. 32, Issue of November 15, pp. 23342-23348, 1992

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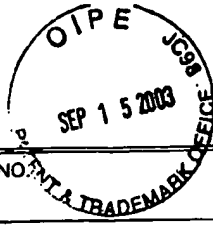
<i>CW</i>	CW	Ritva TIKKANEN, et al., "Several cooperating binding sites mediate the interaction of a lysosomal enzyme with phosphotransferase", The EMBO Journal, vol. 16, No. 22, pp. 6684-6693, 1997
<i>CX</i>	CX	Fumito MATSUURA, et al., "Human alpha-galactosidase A: characterization of the N-linked oligosaccharides on the intracellular and secreted glycoforms overexpressed by Chinese hamster ovary cells", Glycobiology, vol. 8, no. 4, pp. 329-339, 1998
<i>CY</i>	CY	Shiroh MAGUCHI, et al., "Elevated Activity and Increased Mannose-6-phosphate in the Carbohydrate Moiety of Cathepsin D from Human Hepatoma", Cancer Research, Vol. 48, pp. 362-367, January 15, 1988
<i>CZ</i>	CZ	Norman W. Barton, et al., "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 1913-1916, March 1990

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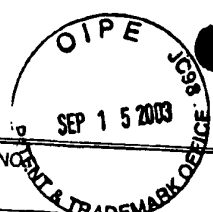
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<i>CP</i>	AX	Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme $\alpha$ -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp. 225-252
<i>CP</i>	AY	Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human $\alpha$ -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, 1997, pp. 22758-22765
<i>CP</i>	AZ	Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp. 1667-1682, (July 1, 1999)

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BW	Huaichang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal $\alpha$ -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999)
BX	AJJ REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin., Vol. 52, (1994), pp. 721-728
BY	
BZ	

Examiner

*CH Allen*

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Date Considered 10/17/03

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